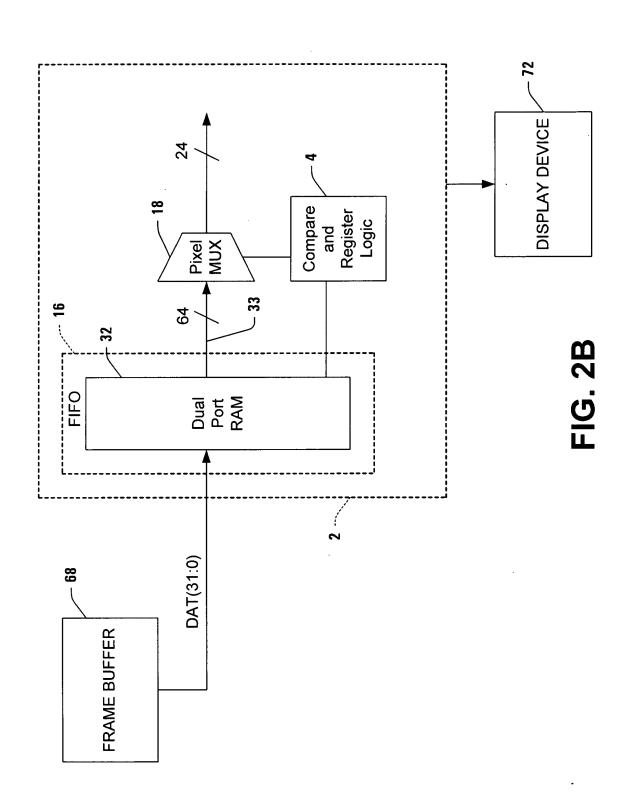
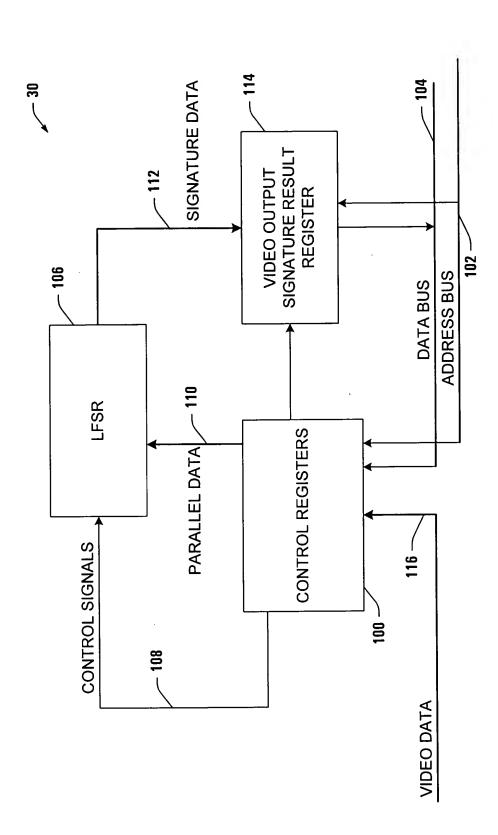


FIG. 2A





五 ()

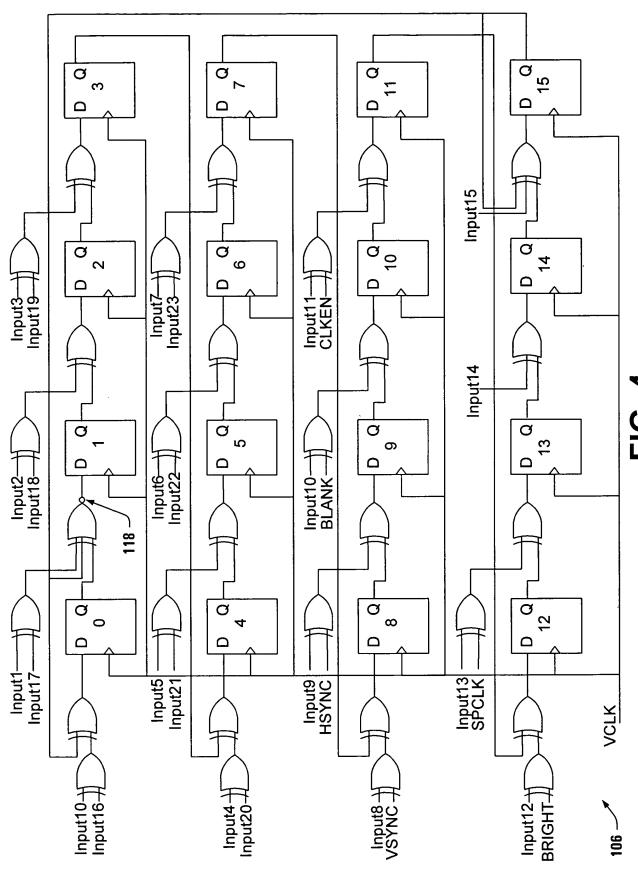


FIG. 4

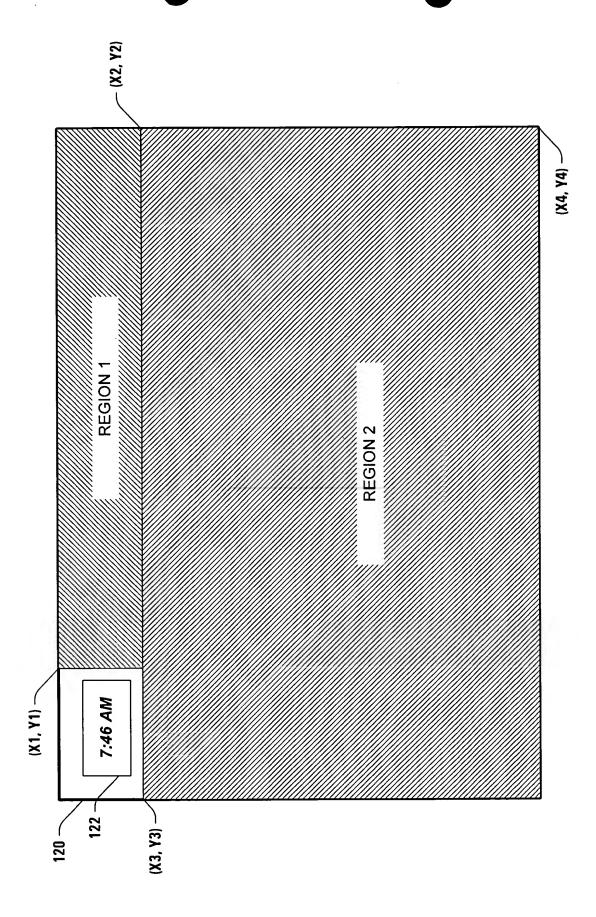


FIG. 5

sig VAL 0 sig VAL -- SIG VAL 7 sig VAL က sig VAL 4 sig VAL S sig VAL 9 SIG VAL / SIG VAL ∞ sig VAL တ 10 sig VAL 7 sig VAL 12 sig VAL 13 sig VAL 4 sig VAL 15 SIG VAL

RSVD

16

SIGVAL

FIG. 6A

130

16 PEN		
,		PEN
17 PEN	-	PEN
18 PEN	2	PEN
19 PEN	က	PEN
26 25 24 23 22 21 20 19 18 17 16 BLANK HSYNC VSYNC PEN	4	PEN
21 PEN	5	PEN
22 PEN	9	PEN
23 PEN		PEN
24 VSYNC		PEN
27 26 25 24 CLKEN BLANK HSYNC VSYNC		PEN
26 BLANK	10 9	PEN
27 CLKEN	7	PEN
28 BRIGH	12	PEN
30 29 28 RSVD SPCLK BRIGH	13	PEN
31 30 29 28 EN RSVD SPCLK BRIGH	15 14 13 12	DE N
. S	15	PEN

SIGCTL

FIG. 6B

132 —

16	STOP 0	0	START 0
17	STOP 1	-	START 1
18	STOP 2	2	START 2
19	STOP 3	က	START 3
20	STOP 4	4	START 4
21	STOP 5	5	START 5
22	STOP 6	9	RT START 6
23	STOP 7	7	STAF 7
24	STOP 8	8	START 8
25	STOP 9	6	START 9
26	STOP 10	10	START 10
27	RSVD	7	RSVD
28	RSVD	12	RSVD
29	RSVD	13	RSVD
31 30 29 28	RSVD RSVD RSVD	15 14	RSVD RSVD RSVD
31	RSVD	15	RSVD

VSIGSTRTSTOP

134

FIG. 6C

		,	
16	STOP 0	0	START 0
17	STOP 1	-	STAR1
18	STOP 2	2	STAR1
19	STOP 3	က	STA 3
20	STOP 4	4	STA 4
21	STOP 5	5	STA 5
22	STOP 6	9	RT START 6
23	STOP 7	7	STAI
24	STOP 8	80	STA
25	STOP 9	6	STA 9
26	STOP 10	10	START 10
27	RSVD	11	RSVD
28	RSVD	12	RSVD
29	RSVD	13	RSVD
30	RSVD RSVD RSVD	15 14	RSVD RSVD RSVD
31	RSVD	15	RSVD

HSIGSTRTSTOP

136

FIG. 6D

16	VCLR 0	0	HCLR 0
17	VCLR 1	-	HCLR 1
18	VCLR 2	2	HCLR 2
19	VCLR 3	က	HCLR 3
20	VCLR 4	4	HCLR 4
21	VCLR 5	5	HCLR 5
22	VCLR 6	9	HCLR 6
23	VCLR 7	7	HCLR 7
24	/CLR 8	8	HCLR 8
25	VCLR V	6	HCLR 9
26	VCLR 10	10	HCLR 10
27	RSVD	11	RSVD
28	RSVD	12	RSVD
29	RSVD	13	RSVD
30	RSVD RSVD RSVD	14	RSVD RSVD RSVD
31	RSVD	15	RSVD

SIGCLR

138

FIG. 6E

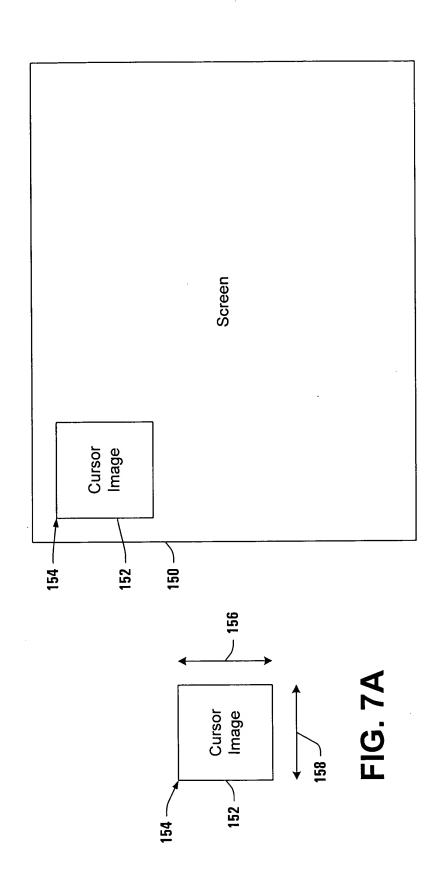


FIG. 7B

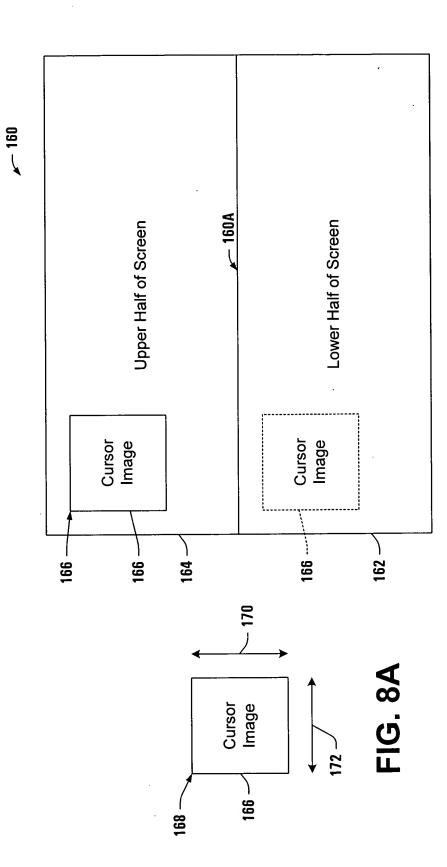


FIG. 8B

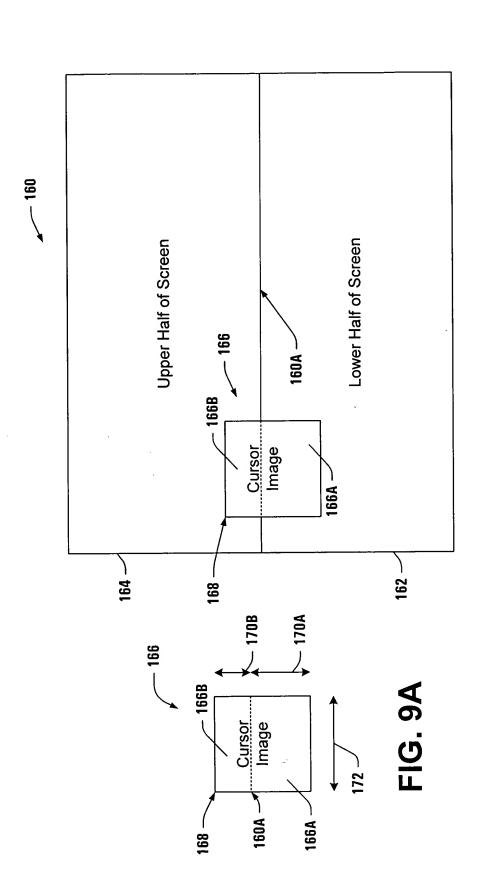
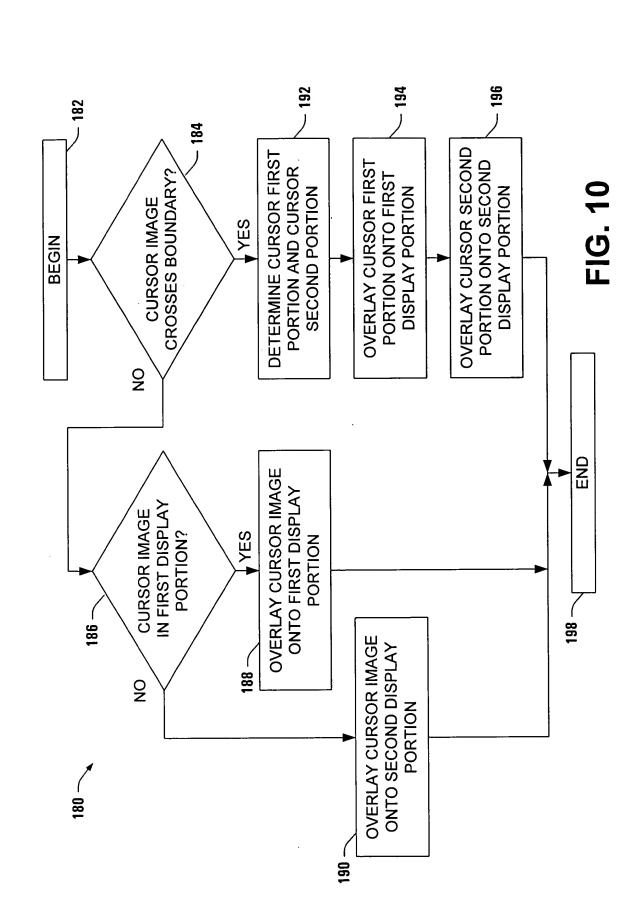


FIG. 9B



		_	
16	ADR	0	Ą.
17	ADR	←	N A
18	ADR	2	ADR
19	ADR	က	ADR
20	ADR	4	ADR
21	ADR	5	ADR
22	ADR	9	ADR
23	ADR	7	ADR
24	ADR	8	ADR
25	ADR	6	ADR
26	ADR	10	ADR
27	ADR	1	ADR
28	ADR	12	ADR
29	ADR	13	ADR
30	ADR	4	ADR
31 30	ADR	15	ADR

CURSOR_ADR_START

200

FIG. 11A

_		_	
16	ADR	0	NA A
17	ADR	←	A A
18	ADR	2	ADR
19	ADR	က	ADR
20	ADR	4	ADR
21	ADR	5	ADR
22	ADR	9	ADR
23	ADR	7	ADR
24	ADR	8	ADR
25	ADR	6	ADR
26	ADR	10	ADR
27	ADR	7	ADR
28	ADR	12	ADR
59	ADR	55	ADR
30	ADR	4	ADR
31	ADR	15	ADR

CURSOR_ADR_RESET

202

FIG. 11B

16	RSVD	0	CWIDO
17	RSVD	~	CWID1
18	RSVD	2	CLINSO
27 26 25 24 23 22 21 20 19 18 17 16	RSVD RSVD RSVD RSVD RSVD RSVD RSVD RSVD	က	CLINS5 CLINS4 CLINS3 CLINS2 CLINS1 CLINS0 CWID1 CWID0
20	RSVD	4	CLINS2
21	RSVD	5	CLINS3
22	RSVD	9	CLINS4
23	RSVD	7	
24	RSVD	8	DLNS1 DLNS0 CSTEP CSTEP 0
25	RSVD	6	CSTEP 1
26	RSVD	10 9	DLNS0
27	RSVD	11	DLNS1
28	RSVD	12	DLNS2
29	RSVD	13	DLNS3
31 30 29 28	RSVD	15 14 13 12	DLNS5 DLNS4 DLNS3 DLNS2
31	RSVD	15	DLNS5

CURSORSIZE

204

FIG. 11C

16	COLO	0	COLO
17	COLO R	-	COLO
18	COLO	7	COLO
19	COLO	က	COLO R
20	COLO R	4	COLO R
21	COLO	5	COLO
22	COLO	9	COLO
23	COLO	7	COLO
24	RSVD	8	COLO
25	RSVD	6	COLO
26	RSVD	10	COLO
27	RSVD	1	COLO
28	RSVD	12	COLO
29	RSVD	13	coLo R
30	RSVD	4	COLO COLO COLÔ
31	RSVD	15	COLO

CURSORCOLOR1 CURSORCOLOR2 CURSORBLINK1 CURSORBLINK2

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FIG. 11D

_			
16	VLOC 0	0	NLOC 0
17	YLOC 1	~	XLOC 1
18	YLOC 2	7	XLOC 2
19	7LOC 3	က	XLOC 3
20	YLOC 4	4	XLOC 4
21	YLOC 5	5	XLOC 5
22	YLOC 6	9	XLOC 6
23	YLOC 7	7	XLOC 7
24	YLOC 8	8	XLOC 8
25	YLOC 9	6	6 XLOC
26	YLOC 10	10	XLOC 10
27	RSVD	11	RSVD
28	RSVD	12	RSVD
29	RSVD	13	RSVD
31 30	RSVD RSVD RSVD	15 14	CEN RSVD RSVD
31	RSVD	15	CEN

CURSORXYLOC

208

FIG. 11E

16	RSVD	0	YLOC 0
17	RSVD	-	YLOC 1
18	RSVD	2	YLOC 2
19	RSVD	က	YLOC 3
20	RSVD	4	YLOC 4
21	RSVD	5	YLOC
22	RSVD	9	YLOC 6
23	RSVD	7	YLOC 7
24	RSVD	8	YLOC 8
25	RSVD	6	ALOC 9
26	RSVD	10	YLOC 10
27	RSVD	=	RSVD
28	RSVD	12	RSVD
29	RSVD	14 13 12	RSVD
31 30	RSVD RSVD RSVD	4	CLHEN RSVD RSVD RSVD
31	RSVD	15	CLHEN

CURSOR_DHSCAN_LH_YLOC

210

FIG. 11F

	_	
RSVD	0	RATE
RSVD	-	RATE
RSVD	2	RATE
RSVD	က	RATE RATE RATE RATE RATE
	4	RATE
RSVD	5	RATE
RSVD	9	RATE
RSVD	7	RATE
RSVD	8	EN
RSVD	6	RSVD
RSVD	10	RSVD
	=	RSVD
RSVD	12	RSVD
RSVD	13	RSVD
RSVD	4	RSVD RSVD RSVD
RSVD	15	RSVD
	RSVD	D RSVD RS

CURSORBLINK

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FIG. 11G

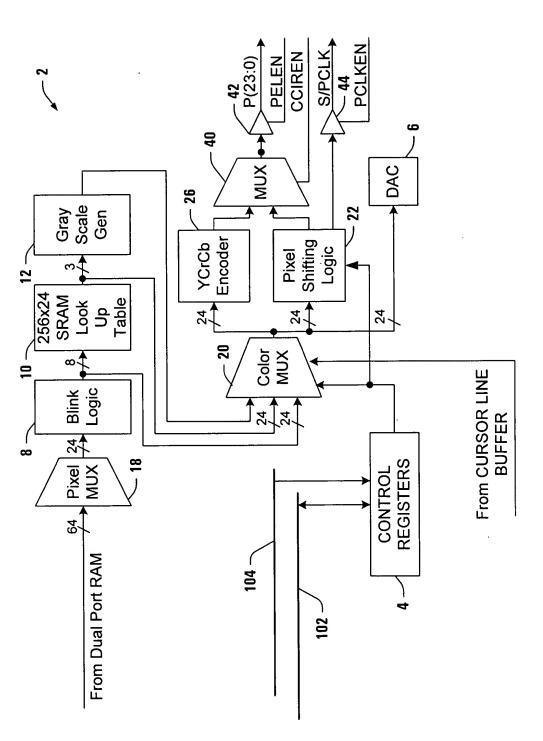


FIG. 12

16	RSVD	0	PO
17	RSVD	-	7
19 18 17 16	RSVD	2	P2
19	RSVD	3	SO
20	RSVD	4	S1
21	RSVD	5	S2
22	RSVD	9	MO
23	RSVD	7	M1
24	RSVD	8	M2
25 24	RSVD	6	M3
26	RSVD	11 10 9	00
27	RSVD	11	23
28	RSVD	12	C2
29	RSVD	13	ខ
30	RSVD RSVD RSVD	15 14 13	RSVD DSCA
31	RSVD	15	RSVD

PIXELMODE

FIG. 13A

230 —

		_	
16	RSVD	0	DAT
19 18 17	RSVD	←	DAT
18	RSVD	2	DAT
	RSVD	3	DAT
20	RSVD	4	DAT
22 21	RSVD	5	DAT
	RSVD RSVD RSVD	9	DAT
23	RSVD	7	DAT
24	RSVD	80	RD
25	RSVD	6	RSVD
26	RSVD	10 9	RSVD
27	RSVD	7	RSVD
28	RSVD	12	RSVD
29	RSVD	13 12	RSVD
30	RSVD	15 14	RSVD
31	RSVD	15	RSVD

PARLLIFOUT

232

FIG. 13B

-			
16	CNTO	0	DAT
17	CNT1	←	DAT
19 18 17	CNT2	2	DAT
19	CNT3	3	DAT
20	ESTR T0	4	DAT
21	ESTR T1	5	DAT
22	ESTR T2	9	DAT
23	ESTR T3	7	DAT
24	RSVD	80	RSVD
25		6	RSVD RSVD
26	RSVD RSVD	10	RSVD
27	RSVD	7	RSVD
28	RSVD	12	RSVD
29	RSVD	13	RSVD
31 30 29 28	RSVD RSVD RSVD RSVI	15 14 13 12	RSVD RSVD RSVI
31	RSVD	15	RSVD

PARLLIFIN

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FIG. 13C

P(0)) P(0)) B(0)) B(2)) P(2)) B(2)) B(4)) B(4)	1	_	(5) BO(5)	<u>-</u>	1	ет Прред) P(S)	() B(5)	(S) P0(7)	7) B0(7)		 	oer Upper	15) P0(7)	
<u> </u>	:	() F()	() B(I)	8(3)		B(3)	B(3)		() B(0)	\dashv) B(0)	+	7) P0(6)	7) B0(6)		4	er Upper	- P(6)) B(6)	(2) PO(15)	6(2)		\dashv	xer Upper	22) P0(15)	
P(2)	_	P(2)	B(2)	B(A)		B(4)	B(4)		(i) B(4	B(1)	4	DO(7)) B0(7)		_	ır Upper	<u>P(J</u>	B(7)) P0(22)) R0(6) •		4	r Upper	3) P0(22)	
P(3)		-G (S)	B(3)	9		B(0)	B(5)		B(2)	\downarrow	B(2)	4	P0(13)	99(3)		\downarrow	Upper	P(13)	ફ	P0(23)	R0(7)		-	r Upper	P0(23)	
<u>\$</u>		P(5) B(5) P(4) B(4)		â		B(1)	B(6)	:	B(3)		B(3)		P0(14)	999			Upper	P(14)	ફુ	P1(7)	B1(7)		4	Lower	P0(7)	
P(5)	:	P(5) B(5		Ę,	(7)0	B(2)	B(7)	;	B(4)		B(4)		P0(15)	60(3)			Upper	P(15)	ફે	P1(15)	(2)			Lower	P0(15)	
P(6)		P(6)	B(6)	(E) B	Ĉ	B(3)	ફિ	;	G(0)		(4)		P0(21)	R0(5)			Upper	P(21)	3	P1(22)	R1(6) *			Lower	P0(22)	
P(7)		P(7)	B(7)	8,0	(+)q	B(4)	<u>6</u>	<u>;</u>	(I)b		<u>(6</u>		P0(22)	R0(6)			Upper	P(22)	<u>R</u> 6	P1(23)	R1(7)			Lower	P0(23)	
P(8)		P(8)	9	1 8	£	G(2)	<u>£</u>	}	G(2)		<u> </u>		P0(23)	R0(7)			Upper	P(23)	R(J)	P2(7)	B2(7)			Upper	P1(7)	
P(9)	i	P(9)	G(I)	8	(c)n	g(3)	ઈ	}	(£)		(2)		P1(5)	B1(5)			Lower	P(5)	B(5)	P2(15)	G2(7)			Upper	P1(15)	
P(10)		P(10)	(2)	8	9	G(4)	95	}	G(4)		(£)		P1(6)	B1(6)			Lower	P(6)	B(6)	P2(22)	R2(6)		\downarrow	Upper	P1(22)	_
P(11)		P(11)	<u> </u>	1	5	6)5	Ę	}	G(S)		G(4)		P1(7)	B1(7)		_	Lower	P(7)	B(7)	P2(23)	R2(7)	_	\perp	Upper	P1(23)	_
P(12)		P(12)	G(4)	5	35	ĵ.	R(2)	}	R(4)		R(4)		P1(13)	GI(S)			Lower	P(13)	ઈ	P3(7)	B3(7)		\perp	Lower	P1(7)	
P(13)	:	P(13)	G(S)	٤	3	6(2)	§	}	R(0)		R(0)		P1(14)	Q1(e)		_	Lower	P(14)	ફુ	P3(15)	(2)(3)			Lower	P1(15)	
P(14)		P(14)	95	3	§	6(3)	R(4)	ì	R(1)		R(1)	\perp	P1(15)	(2)			Lower	P(15)	ફ	P3(22)	R3(6)•		\downarrow	Lower	P1(22)	
P(15)		P(15)	G(7)	8	<u> </u>	G(4)	R(5)	}	R(2)		R(2)		P1(21)	G1(5)			Lower	P(21)	<u>R</u> 3	P3(23)	(7) X3		\downarrow	Lower	P1(23)	
P(16)		P(16)	R(0)	1	K(2)	R(2)	R/6	}	R(3)		R(3)		P1(22)	G1(6)			Lower	P(22)	R(6)	P0(6)	B0(6) *			Upper	P0(6)	
P(17)		(11)4	R(1)	3	K(3)	R(3)	R(7)	}	R(4)		R(4)		P1(23)	R1(7)			Lower	P(23)	R(7)	P0(14)	. (9)05			Upper	P0(14)	
P(18)	***	P(18)	R(2)	3	K(4)	R(4)	×	;	×		×		P0(4)	B0(4) *			Upper	P(4) B(4)	٠	P1(6)	B1(6) *			Lower	P0(6)	
P(19)	***	P(19)	R(3)	3	K(0)	R(0)	×	; 	×		×		P0(12)	R0(4) * G0(4) *			Upper	P(12)	G(4)	P1(14)	G1(6) •			Lower	P0(14)	
P(20)	***	P(20)	R(4)	}	K(1)	R(1)	×	<	×		×		P0(20)	R0(4) *			Upper	P(20)	R(4) *	P2(6)	B2(6)			Upper	P1(6)	
P(21)	***	P(21)	R(5)		R(2)	R(2)	*	·	×		×		P1(4)	B1(4) *			Lower	P(4) B(4)	•	P2(14)	B2(6) *			Upper	P1(14)	
P(22)	***	P(22)	R(6)		R(3)	R(3)	*	٠	×		×		P1(12)	RI(4) • GI(4) •			Lower Lower	P(12)	G(4) *	P3(6)	B3(6) •			Lower	P1(14) P1(6)	_
P(23)	***	P(23)	R(7)		R(4)	R(4)	>		×		×		P1(20)	R1(4) *			Lower	P(20)	R(4) •	P3(14)	G3(6) •			Lower	P1(14)	
output mode		0x0 0x4 single pixel per	clock up to 24 bits	wide	single 16-bit 565 pixel per clock	single 16-bit 555	pixel per clock	on 18 lines	single 16-bit 565	pixel on 18 lines	single 16-bit 555	pixel on 18 lines	progressive scan P1(20) P1(12) P1(4) P0(20) P0(12)	2 pixels per shift	clock	dual scan				progressive scan	4 pixels per shift G3(6) * B3(6) * B2(6) * B2(6) * G1(6) * B1(6) *	clock	dual scan			
color	mode	0x0 0x4	0x8	_	0x2	9×0	100	010	1		9x0		0×0	0x8						0×0	8x0					•
shift	mode	010		Ī	0x0	0x0	_	<u> </u>	120		0x1		0,72							620						_

FIG. 14A

P7(15) P7(7) B7 P6(15) P6(7) B6 P5(15) P6(7) B6 P6(15) P6(15) P7(7) B1 P0(15) P0(7) B0 G7* * G6* * G3* * G3* * G1* * G0* *	Upper P0(7) B0	BO	23 S3	U B0	UR2 UGS	D(0)	:	:]
P0(15)	Lower Upper Upper Opper PO(15) PO(7) BG GG	8	B3 RS	U G0	UB3 URS	ĵ	:	:
P1(7) B1	Lower P0(7) B0	RO	G3 B6	U R0	U G3 U B6	D(2)	:	:
P1(15)		BI	স ৪	UBI	UR3 UG6	වි	:	:
P2(7) B2 •	Upper P1(7) B1	15	B4 R6	U G1	UB4 UR6	⊕	:	:
P2(15) G2 •	Upper P1(15) G1 *	RI	G4 B7	URI	U G4 U B7	D(S)	:	:
P3(7) B3	Lower Lower P1(15) P1(7) B1 G1 • •	B2	R4 G7	UB2	UR4 UG7	D(6)	:	:
P3(15)	Lower P1(15) G1 •	62	BS R7	U G2	UBS UR7	D(7)	:	:
P4(7) B4	Lower Lower Upper Upper Lower Lower Upper G3 * * * * * * * * * * * * * * * * * * *	×	××	L B0	LR2 LGS	:	:	:
P4(15)	Upper P2(15) G2 *	×	××	r G0	LB3 LR5	:	:	:
P5(7) B5	Lower P2(7) B2	×	××	L RO	LG3	:	:	:
P5(15)	Lower P2(15) G2 •	×	××	LBI	1.13 1.06	:	:	:
P6(7) B6	Upper P3(7) B3	×	××	1 61	LB4 LR6	:	:	:
P6(15) G6 *	Upper P3(15) G3 *	×	××	LRI	L G4 L B7	:	:	:
P7(7) B7	Lower Lower P3(15) P3(7) B3	×	××	L B2	LR4 LG7	:	:	:
P7(15)	Lower P3(15) G3 *	×	××	L G2	LBS LR7	:	YSCL	ا
P0(23)	Upper P0(23) R0 *	×	××	×	××	:	XECL	:
P1(23)	Lower P0(23)	×	××	×	××	:	:	¥C
P2(23)	Upper P1(23)	×	××	×	××	:	:	
P3(23)	Upper Lower P2(23) P1(23) R2 * R1 *	×	××	×	××	:	:	:
P4(23)	Upper P2(23) R2 *	×	××	×	××	:	:	:
P5(23)	Lower Upper Lower Upper Lower P3(23) P3(23) P2(23) P2(23) P1(23) R3 * R3 * R2 * R1 *	×	××	×	××	:	:	:
P6(23)	Upper P3(23) R3 *	×	××	×	××	:	:	:
P7(23) R7 *	Lower P3(23)	×	××	×	××	:	**	:
progressive scan P7(23) P6(23) P5(23) P4(23) P3(23) 8 pixels per shift R7 ** R6 ** R3 ** R4 ** R3 ** clock Analona Analona R4 ** R3 **	 	2 2/3 pixels per clock		Dual 2 2/3 pixels per clock		CCIREN subs	LCDEN subs	ACEN subs
0%0		0 00 800		0% 8%		:	:	:
0x4		01.5		0x6		:	:	:

FIG. 14B

These bits are an ORed combination of the bit value shown and the next significant bit below (This rounds the color value to nearest color).
 These bits do not get a substitute and are defined to the values controlled by the pixel output mode in the upper part of the table.
 These bits are pinned out in certain variants only.
 These bits are pinned out in certain variants only.

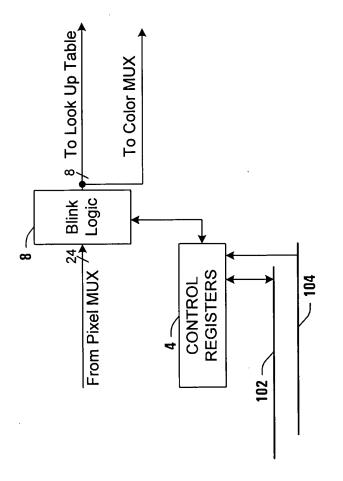


FIG. 15

16	RSVD	0	RATE
17	RSVD	_	RATE
18	RSVD	2	RATE
19	RSVD	က	RATE
26 25 24 23 22 21 20 19 18 17	RSVD RSVD RSVD RSVD RSVD RSVD RSVD RSVD	4	RSVD RSTE RATE RATE RATE RATE RATE
21	RSVD	5	RATE
22	RSVD	9	RATE
23	RSVD	7	RATE
24	RSVD	∞	RSVD
25	RSVD	တ	RSVD
26	RSVD	10 9	RSVD
27	RSVD	=	RSVD
28	RSVD	12	RSVD
59	RSVD	13	RSVD
31 30 29	RSVD RSVD	4	RSVD RSVD RSV
31	RSVD	15	RSVD

BLINKRATE

250 —

FIG. 16A

16	MASK	0	MASK
17	MASK	←	MASK
18	MASK	5	MASK
19	MASK	3 2	MASK
27 26 25 24 23 22 21 20 19 18 17 16	RSVD RSVD RSVD MASK MASK MASK MASK MASK MASK MASK MASK	4	MASK MASK MASK MASK MASK MASK MASK MASK
21	MASK	6 5	MASK
22	MASK	9	MASK
23	MASK	7	MASK
24	RSVD		MASK
25	RSVD	11 10 9 8	MASK
26	RSVD	9	MASK
27	RSVD	=	MASK
28	RSVD	12	MASK
59	RSVD	14 13	MASK
31 30	RSVD RSVD RSVD	4	MASK MASK MASK MASK
31	RSVD	15	MASK

BLINKMASK

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FIG. 16B

_		_	
16	PATRN	0	PATRN
17	PATRN	-	PATRN
18	PATRN	2	PATRN
19	PATRN	3 2	PATRN
26 25 24 23 22 21 20 19 18 17 16	RSVD RSVD RSVD PATRN PATRN PATRN PATRN PATRN PATRN PATRN PATRN	4	PATRN
21	PATRN	5	PATRN
22	PATRN	9	PATRN
23	PATRN	7	PATRN
24	RSVD	8	PATRN
25	RSVD	6	PATRN
26	RSVD	11 10 9 8	PATRN
27	RSVD	11	PATRN
28	RSVD	12	PATRN
29	RSVD	13	PATRN
30	RSVD RSVD RSVD	15 14 13 12	PATRN
31	RSVD	15	PATRN

BLINKPATRN

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FIG. 16C

16	P MASK	0	P MASK
17	P MASK	-	P MASK
18	P MASK	2	P MASK
19	P MASK	က	P MASK
20	P MASK	4	P MASK
21	P MASK	5	P MASK
22	P MASK	9	P MASK
23	P MASK	7	P MASK
24	RSVD	8	P MASK
25	RSVD	6	P MASK
26	RSVD	10	P MASK
27	RSVD	11	P MASK
28	RSVD	12	P K MASK
29	RSVD	13	P P MASK
31 30	RSVD RSVD RSVD	4	
31	RSVD	15	P MASK

PATTERNMASK

)5.6

FIG. 16D

_		_	
16	BGOFF	0	BGOFF
17	BGOFF	~	BGOFF
18	BGOFF	2	BGOFF
19	BGOFF	3	BGOFF
27 26 25 24 23 22 21 20 19 18 17 16	RSVD RSVD RSVD RSVD BGOFF BGOFF BGOFF BGOFF BGOFF BGOFF BGOFF	4	BGOFF
21	BGOFF	5	BGOFF
22	BGOFF	9	BGOFF
23	BGOFF	7	BGOFF
24	RSVD	8	BGOFF
25	RSVD	6	BGOFF
26	RSVD	11 10 9	BGOFF
27	RSVD	7	BGOFF
28	RSVD	12	BGOFF
29	RSVD	13	BGOFF
31 30 29 28	RSVD RSVD RSVD	15 14 13 12	BGOFF BGOFF BGOFF
31	RSVD	15	BGOFF

BG_OFFSET

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FIG. 16E

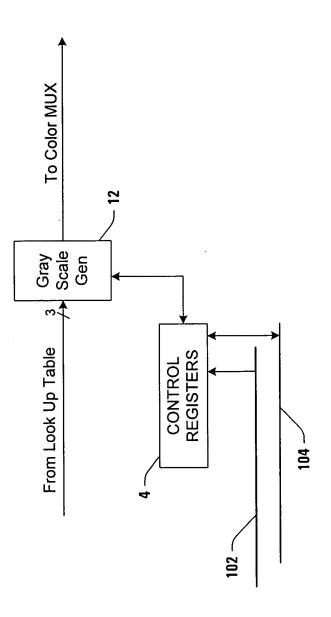


FIG. 17

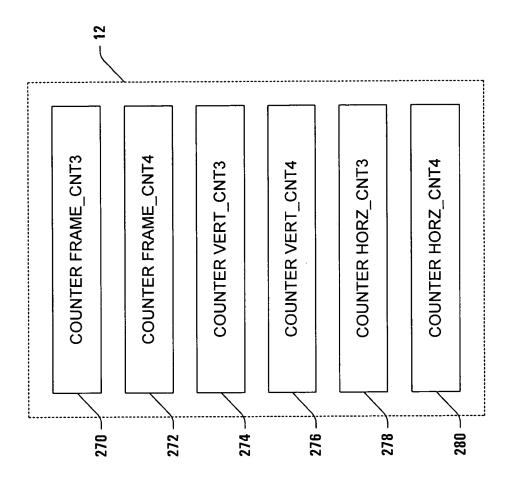


FIG. 18

HORZ	0	00
VERT	_	10
FRAME	2	D2
RSVD	3	D3
RSVD	4	D4
RSVD	5	D5
RSVD	9	90
RSVD	7	D7
RSVD	ω	D8
RSVD	6	D9
RSVD	10	D10
RSVD	=	D11
RSVD	12	D12
RSVD	13	D13
RSVD	4	D14
RSVD	15	D15
	RSVD RSVD RSVD RSVD RSVD RSVD RSVD RSVD	RSVD RSVD RSVD RSVD 11 10 9 8

GRAYSCALE LUT

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FIG. 19

_	_	_	_	_	_		_	_	_		_		_					_									_						\neg	\neg
dress *4	Pixel	Value	000	100	010	011	100	101	110	111	000	00	010	011	100	101	110	111	000	001	010	011	100	101	110	111	8	901	010	011	100	101	110	111
GSLUT Address *4	FRAME		8	8	8	8	8	8	8	00	10	01	01	01	10	01	10	9	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11
8	8	Г	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	00	8	8	8	00	8	8	8	8	8	8
8	10		10	10	10	5	5	ā	ā	10	ā	5	Ю	10	ā	ā	ī	ā	10	5	5	5	10	10	10	01	01	10	10	10	10	10	DI	٥
8	10		20	20	03	20	8	8	8	20	8	8	20	8	8	8	22	8	25	8	8	25	8	20	25	23	22	20	03	8	20	20	D2	20
8	11		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	83	8	8	8	83	8	ខា	80	8	8
9	00		8	2	2	ă	ă	ă	ă	ă	ă	ă	ă	ă	ă	Z	3	Z	2	ă	ă	ă	ă	8	2	Z	8	ž	3	8	8	10	20	ă
5	10		8	g	8	8	8	8	8	8	8	8	g	8	8	8	g	25	8	8	8	8	8	g	8	8	8	8	8	8	8	88	8	8
9	10		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	80	28
2	11		6	0	6	â	6	6	ô	6	à	'n	20	â	6	6	6	20	å	à	6	6	70	07	20	10	07	6	07	20	20	40	07	20
9	8		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	80	8	8	8
ē	6		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
5	10		8	8	8	90	910	å	ä	ŝ	å	010	010	96	o E	96	8	8	ē	010	95	910	010	010	90	010	010	010	010	010	010	010	D10	010
9	=		ā	ā	ï	110	į	2	ā	2	ī	ē	10	2	ē	110	110	5	110	110	110	110	110	ă	110	110	110	Ē	110	ă	160	10	110	110
Ξ	8		012	012	D12	012	012	012	012	D12	012	012	D12	D12	012	D12	D12	210	210	210	012	D12	5	270	015	015	210	210	210	012	012	10	D12	210
Ξ	5		ë	013	613	e i	ç	013	510	513	013	013	013	93	013	610	013	D13	013	913	013	913	Ë	530	013	013	510	52	25	ë	ã	g	ğ	e a
Ξ	9		ă	94	410	9.4	9.4	910	2	914	2	9	410	914	ă	P10	D14	ě	10	ě	ă	ě	510	ă	50	40	ě	ă	20	š	š	ă	ě	40
÷	=		915	210	215	ş	ž	015	ä	510	g	ä	ä	ş	8	210	015	210	510	510	Dis	918	510	915	510	915	910	915	510	510	510	910	910	\$10
VCNT (lines)	HCNT (pixels)	register address	base + 0x80	base + 0x84	base + 0x88	base + 0x8C	base + 0x90	base + 0x94	base + 0x98	base + 0x9C	base + 0xA0	base + 0xA4	base + 0xA8	base + 0xAC	base + 0xB0	base + 0xB4	base + 0xB8	base + 0xBC	base + 0xC0	base + 0xC4	base + 0xC8	base + 0xCC	base + 0xD0	base + 0xD4	base + 0xD8	base + 0xDC	base + 0xE0	base + 0xE4	base + 0xE8	base + 0xEC	base + 0xF0	base + 0xF4	base + 0xF8	base + 0xFC
Horz	పే		D16	D16	D16	D16	016	D16	D16	016	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
Vert	ζţ		D17	110	D17	D17	D17	D17	D17	110	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
FRAME	ð		018	918	D18	D18	D18	D18	018	D18	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
F,V,H def	for pixel	in value	8	90	010	91	8	101	110	111									-	_														

FIG. 20

		П					Π		П	\neg
GSLUT Address *4	Pixel	Value	000	000	000	000	111	111	111	111
GSLUT A	FRAME		00	01	10	11	00	01	10	11
8	00	8	0	0	۰	٥	1	ı	-	-
00	10	Ю	0	0	۰	0	ı	1	ı	-
00	10	20	٥	٥	۰	۰	-	1	1	-
8	11	83	0	۰	٠		-	1	1	1
9	8	Z	0	۰	۰	۰	-	-	-	1
10	5	8	٥	۰	•		-	-	-	1
6	5	8	·	•	•		-	-	-	1
۶	F	'n	·	۰	•	۰	-	-	-	١,
5	8	8	۰	۰	۰	•	-	-	-	1
ē	2	8	۰	۰	۰	-	-	-	-	-
5	9	g	۰	۰	·	۰	-	-	-	-
5	=	ā		۰	-	·	-	-	-	-
=	8	210	۰	۰	•	۰	-	-	-	-
=	2	513	۰	۰	•	•	-	-	-	-
Ξ	5	4.0	۰	٥	•	۰	-	-	-	-
F	Ξ	SIG	۰	°	۰	۰	-	-	-	-
VCNT (lines)	HCNT (pixels)	register address	base + 0x80	base + 0xA0	base + 0xC0	base + 0xE0	base + 0x9C	base + 0xBC	base + 0xDC	base + 0xFC
Horz	τ̈́	D16	×				×			
Vert	ភ	D17	×				×			
FRAME	పే	D18	×				×			

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FIG. 21

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

FRAME 3

FRAME 2

FIG. 22

FRAME 2

FIG. 23

FRAME 2

FIG. 24

		_		_	_	_
GSLUT Address *4	Pixel	Value	011	011	011	011
GSLUTA	FRAME		00	01	10	11
8	8	8	1	0	1	0
8	10	10	1	0	0	1
8	10	02	٥	ı	1	0
8	11	8	٥		0	ı
10	8	8	1	٥	ı	٥
9	10	8	0	Ŀ	ŀ	۰
10	10	8	-	0	۰	1
10	11	40	۰		۰	ŀ
9	8	9 0	۰	-	-	
9	10	88	۰	-	•	-
5	9	010	-	٥		٥
5	=	110	-	۰	٥	-
11	8	012	-	٥	٥	ŀ
F	9	D13	۰	-	٥	-
Ξ	9	4	-	۰	-	-
Ξ	Ξ	210	·	_	-	ŀ
VCNT (lines)	HCNT (pixels)	register address	base + 0x8C	base + 0xAC	base + 0xCC	base + 0xEC
Horz	Çţ	D16	-			
Vert	ਹੋ	D17	-			
FRAME	ţ	D18	-			

FIG. 25

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>

FRAME 0

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 α

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-	0	0
0	0	1
0	-	0

2	
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Σ	
\$	
FR	۱

(9
C	V
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 α I

FRAME 1

FRAME 2

FRAME	Vert	Horz	VCNT (lines)	=	1	11	11 11 11 10 10 10	9	10	5	9	10	10	10	5	8	8	8	8	GSLUT Address *4	dress *4
ਠੋ	పే	ਹੱ	HCNT (pixels)	=	2	9	18	Ξ	2	٥	8	=	9	9	8	Ξ	10	5	8	FRAME	Pixel
018	D17	D16	register address	ğ	914	£10	210	5	8	8	8	6	8	8	Z	8	20	Ιū	8		Value
0	0	0	base + 0x88	×	×	×	×	×		-	-	×	-	·	•	×	-	•	-	00	010
			base + 0xA8	×	×	×	×	×	-		-	×	۰	-		×	-	-	•	01	010
			base + 0xC8	×	×	×	×	×		0	-	×	-	-	-	×	-		۰	10	010
			base + 0xE8	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	11	010

FIG. 28

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<u>~</u> 0 ェ 318

FRAME 0

FRAME 1

0	0	1
0	0	1
1	+	0
0	0	0

FRAME 2

1	1	0
-	0	0
0	0	0
0	-	1

			_	_	_	_
GSLUT Address *4	Pixel	Value	010	010	010	010
GSLUTA	FRAME		00	01	10	11
8	8	8	1	0	0	×
8	10	10	0	1	0	×
8	10	02	0	0	1	×
8 8	11	60	0	0	1	×
10	8	10	0	0	-	×
0	10	90	0		۰	×
٥	9	8	1	٥	°	×
5	=	40	_	۰	-	×
2	8	8	•	°	-	×
10 10 01 01	5	8	-	e	°	×
11 11 11 11 10 10	2	ă	۰	-	۰	×
9	11	Ē	۰	-	•	×
=	8	212	×	×	×	×
Ξ	5	013	×	×	×	×
Ξ	9	014	×	×	×	×
1	Ξ	015	×	×	×	×
VCNT (lines)	HCNT (pixels)	register address	base + 0x88	base + 0xA8	base + 0xC8	base + 0xE8
Horz	ಶ	D16	0			
Vert	పే	D17	0			
FRAME	ਹੋ	D18	0			

FIG. 30

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	_	_		,									_	-		_						-						,		-	_
Vertical Frame	Ano (nz.)	OOt	230	09	80	20	90	09	75	75	75	20	85	80	85	72	80	09	7.0	9	7.0	65	09	90	20	09	09	55	40	24	,,
Pixel Shift Clock frequency	(AIII)	0.23	0.5	0.5	6.4	4	8	4	3	24	24	NA	NA	40	NA	30	NA	85	NA	06	110	135	ΝΑ	135	09	ΝA	135	ΑN	16.875	16.875	10.0/3
pixels per	STILL CIOCK	0	4	4	7	-	-	4	8		1	1	- 1	1	1	2	1	1	1	1	1	₩	1	1	1	1	1	-	8	80	۵
Oisolay, Pata format	Display Data format	топоситоше	monochrome	толоснготе	analog	4 bit RGB	4 bit RGB	топоснготе	grayscale	18 bit RGB	18 bit RGB	analog	analog	18 bit RGB	analog	18 bit RGB	analog	18 or 24 bit RGB	analog	18 or 24 bit RGB	18 or 24 bit RGB	18 or 24 bit RGB	analog	18 or 24 bit RGB	24 bit RGB	analog	24 bit RGB	analog	monochrome	топосиготе	толоспготе
Frame Buffer Storage	rormat	4 opp	4 bpp	4 bpp	g bpp	4 bit RGB	4 bit RGB	4 bpp	4 or 8 bpp	8 or 16 bpp	8, 16, or 24 bpp	4 bpp	4 bpp	4 bpp																	
Video Clock frequency	(MHZ)	7	2	2	6.4	4	8	16	24	24	24	25.175	32	40	50	09	7.5	85	110	06	110	135	135	135	20	99	135	135	135	135	135
;	Resolution x Resolution	128 × 32	128 × 64	256 x 128	320 × 234	320 x 240	640 x 240	640 x 400	640 × 480	640 x 480	640 x 480	640 x 480	640 × 480	800 × 600	800 × 600	1024 x 768	1024 x 768	1280 x 1024	1280 × 1024	1400 x 1024	1400 x 1050	1600 x 1200	1600 x 1200			1280 x 720		1920 x 1080	2048 x 1536	2560 x 2048	3200 × 2400
-	Display Type	VFD	ГСБ	CCD	"QVGA" TFT LCD	QVGA STN LCD	HVGA STN LCD	"VGA" DC Plasma	VGA EL	VGA STN LCD	VGATFT LCD	VGA CRT	VGA CRT	SVGA TFT LCD	SVGA CRT	XGA TFT LCD	XGA CRT	SXGA TFT LCD	SXGA CRT	SXGAW TFT LCD	SXGA+ TFT LCD	UXGA TFT LCD	UXGA CRT	UXGAW TFT LCD	HDTV-2 LCD	HDTV-2 CRT	HDTV-4 LCD	HDTV-4 CRT	OXGA LCD	QSXGA LCD	QUXGA LCD

FIG. 31

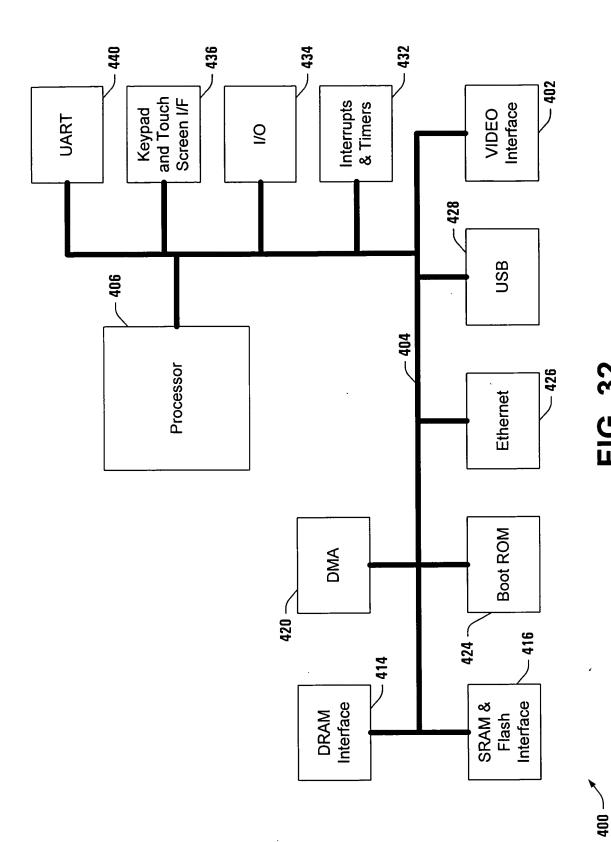


FIG. 32